



NGV Technology Forum

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Codes and Standards Development

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Codes and Standards

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- The NGV Codes and Standards development began about thirty years ago
- The development process relied on information from similar codes, subject matter experts and operational experience
- Since operational experience is critical to balance safety vs. economic viability – code development generally lags new technology introduction
- Therefore codes and standards development is an iterative process requiring continuing support and participation
- In the last few years we have gained significant operational experience and have developed new technologies that dictate revisions to existing codes and standards



Codes and Standards

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- Hank Seiff, Director of Technology, NGVC will provide us with an overview and status of the Codes and Standards developed to date
- You will see that a great deal has been accomplished but by the very nature of the development a lot of work remains to be done:
 - Revise and update codes and standards based on new technology and operational experience
 - Develop new codes and standards for the possible transition to Hydrogen
 - Harmonize codes and standards within the US, North America and Internationally
 - Provide a central source for codes and standards information and documentation
 - Educate end users, potential customers, local code officials, first responders and our industry
- This work can only be accomplished through your continued support and the increased involvement of individuals within the industry

Code Issues

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The following issues with existing codes and standards have been brought to our attention:

- CNG fuel cylinder life and recertification i.e. the vehicle life may be longer than the fuel cylinder life
- LNG bulk storage tank separation distances vs. tank size i.e. the jump from 25ft to 50 ft at 15,000 gallons
- Location of methane detectors in garages for home refueling i.e. cost of installation vs. actual risk of leakage